

## MATERIAL SAFETY DATA SHEET

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This MSDS has been prepared by PSK Pharma Private Limited, Quality Control Dept .

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

**CUTARUB**

**COMPANY:**

PSK Pharma Private Limited  
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RECOMMENDED USE: Rub-in Hand Disinfectant

### 2. COMPOSITION

Ingredient Name	CAS No.	Percentage (w/w)
2-PROPANOL	67-63-0	45.0-49.5
1-PROPANOL	71-23-8	30.0-33.0
ETHYL HEXADECYL-DIMETHYL AMMONIUMSULPHATE	3006-10-8	0.20-0.22
SKIN PROTECTING SUBSTANCES	- 7732-18-5	16.0-23.0
PURIFIED WATER		

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### 3. HAZARDS IDENTIFICATION

NOTE: DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE.

POISONS SCHEDULE NONE ALLOCATED

Information pertaining to particular dangers for man and environment

R 10 Flammable.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.

#### Classification System

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information by supplier companies.

### 4. FIRST AID MEASURES

#### EYE CONTACT

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

#### SKIN CONTACT

No need for first aid is anticipated.

#### INHALATION

Remove person to fresh air. If signs/symptoms develop, get medical attention.

#### IF SWALLOWED

Do not induce vomiting unless instructed to do so by medical personnel. Give person two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

### 5. FIRE FIGHTING MEASURES

#### SUITABLE EXTINGUISHING MEDIA

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

#### EXPOSURE HAZARDS DURING FIRE

Vapours may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode.

#### FIRE FIGHTING PROCEDURES

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Water may not effectively extinguish fire; however, it should be use to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Turnout Gear) and a self-contained breathing apparatus (SCBA).

Combustion Products from Fire

Combustion Products from Fire are listed in Section 10, STABILITY AND REACTIVITY.

HAZCHEM CODE

2[Y]E

### 6. ACCIDENTAL RELEASE MEASURES (SPILL)

#### **Person-related safety precautions:**

Ensure adequate ventilation  
Keep away from ignition sources

#### **Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.  
Dilute with much water.

#### **Spill Response**

Absorb with liquid-binding material(sand, diatomite, acid binders, sawdust)

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Seal the container. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel.

Extinguish all ignition sources. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate area with fresh air. In accordance with good industrial hygiene practice, provide exhaust ventilation for large spills or in confined spaces. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

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Keep container tightly closed when not in use. Avoid contact with oxidizing agents. Keep away from heat and direct sunlight.

### Conditions for Safe Storage

Keep container closed when not in use.

Incompatibility - Materials to Avoid

Store away from acids. Store out of direct sunlight. Store away from heat. Store away from oxidizing agents.

### EXPLOSION AVOIDANCE

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with critical values that require monitoring at the workplace:	
<b>67-63-0 isopropanol</b>	
WEL ()	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
<b>71-23-8 propan-1-ol</b>	
WEL ()	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm Sk

Additional information: The lists that were valid during the compilation were used as basis.

Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation

Use in a well-ventilated area.

Eye Protection

Avoid eye contact with vapour, spray, or mist.

Hand Protection

Not applicable.

Respiratory Protection

Avoid breathing vapours, mists or spray.

Prevention of Accidental Ingestion

Do not ingest. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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## General Information

Form: Fluid  
Colour: Light Blue  
Smell: Pleasant  
pH: 6 – 7.5

## Change in condition

Melting point/Melting range: Not determined  
Boiling point/Boiling range: Not determined

Flash point: 23<sup>0</sup>C (DIN 51 755)  
Ignition temperature: 430<sup>0</sup>C

Self-inflammability: Product is not self igniting  
Danger of explosion: Product is not explosive. However, formation of air/steam mixtures is possible.

Critical values for explosion  
Lower: 20<sup>0</sup>C 70 g/m<sup>3</sup> (DIN 51 649)  
Steam pressure at 50<sup>0</sup>C: 6 kPa(analog EN 12)  
Density at 20<sup>0</sup>C: 0.83 g/cm<sup>3</sup>  
Solubility in/ Miscibility with Water: Fully miscible

## 10 STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of composition:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification:		
Bioclens-HD (14 days observation)		
Oral	LD50	13260 mg/kg (Rat)

Primary irritant effect:

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**on the skin:** No irritant effect

**on the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** No sensitizing effect known.

**Additional toxicological information:** Irritant

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

### 12. EUCOLOGICAL INFORMATION

**Information about elimination (persistence and degradability):**

**Other information:** The product is easily biodegradable.

### 13. DISPOSABLE CONSIDERATIONS

**Product:**

**Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.

**Uncleaned packagings:**

**Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14. TRANSPORT INFORMATION

**Land transport ADR/RID and GGVs/GGVE (cross-border/domestic)**

**ADR/RID-GGVs/E Class:** 3 (F1) Flammable liquids.

**Kemler Number:** 30

**UN Number:** 1987

**Packaging group:** III

**Label:** 3

**Designation of goods:** 1987 ALCOHOLS, N.O.S. (n-propanol, isopropanol)

**Marine Transport IMDG/GGVSea:**

**IMDG/GGVSea Class:** 3

**UN Number:** 1987

**Label:** 3

**Packaging group:** III

**EMS Number:** F-E,S-D

**Marine pollutant:** -

**Correct technical name:** ALCOHOLS, N.O.S. (n-propanol, isopropanol)

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** 3

**UN/ID Number:** 1987

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**Label:** 3  
**Packaging group:** III  
**Correct technical name:** ALCOHOLS, N.O.S. (n-propanol, isopropanol)  
**Remarks:** A3

### 15. REGULATORY INFORMATKION

**Designation according to EC guidelines:**

As a drug/ cosmetic preparation, the product is not subject to the provisions of the Chemical Law and the Ordinance on Hazardous Materials. However, normal safety regulations should be observed.

**Risk phrases:**

10 Flammable.  
41 Risk of serious damages to eyes.  
67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
46 If swallowed, seek medical advice immediately and show this container or label.

### 16. OTHER INFORMATION

**Relevant R-phrases:**

11 Highly flammable  
22 Harmful if swallowed  
36 Irritating to eyes.  
38 Irritating to skin.  
41 Risk of serious damage to eyes.  
50 Very toxic to aquatic organisms.  
67 Vapours may cause drowsiness and dizziness.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Quality Control In-charge at +91 8192 240 317.

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